



Improvements to Hazardous Materials Audit Program Prove Effective

2009 Environment, Energy and Sustainability Symposium and Exhibition

including suggestions for reducing	ompleting and reviewing the collect this burden, to Washington Headqu uld be aware that notwithstanding ar DMB control number.	arters Services, Directorate for Infor	mation Operations and Reports	, 1215 Jefferson Davis	Highway, Suite 1204, Arlington	
1. REPORT DATE MAY 2009	2. REPORT TYPE			3. DATES COVERED 00-00-2009		
4. TITLE AND SUBTITLE	5a. CONTRACT NUMBER					
Improvements to H	ove Effective	octive 5b. GRANT NUMBER				
				5c. PROGRAM ELEMENT NUMBER		
6. AUTHOR(S)				5d. PROJECT NUMBER		
				5e. TASK NUMBER		
				5f. WORK UNIT NUMBER		
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) 75th Air Base Wing,75ABW/CEG/CEVC,Hill AFB,UT,84056				8. PERFORMING ORGANIZATION REPORT NUMBER		
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)		
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)		
12. DISTRIBUTION/AVAII Approved for publ	LABILITY STATEMENT ic release; distributi	on unlimited				
13. SUPPLEMENTARY NO Presented at the NI held 4-7 May 2009	DIA Environment, I	Energy Security & S	Sustainability (E2	S2) Symposi	um & Exhibition	
14. ABSTRACT						
15. SUBJECT TERMS						
16. SECURITY CLASSIFIC	17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON			
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified	Same as Report (SAR)	17	RESTONSIBLE FERSON	

Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and

Report Documentation Page

Form Approved OMB No. 0704-0188

Outline

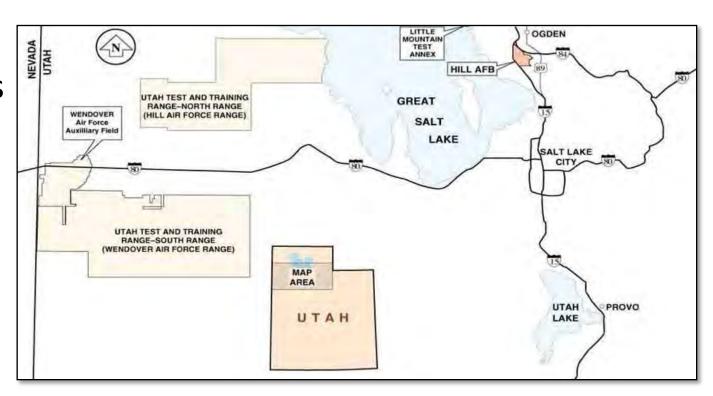


- 1. Hill AFB Background
- 2. HazMat Audit Program
- 3. Results
- 4. Lessons Learned
- 5. Summary





- > Maintenance depot
- > F-16, A-10, F-22, C-130, B-2, and stealth aircraft
- > 28,000+ employees







- > 52,000 industrial processes
- > 74 HazMat distribution centers (Hazmarts)











- > More than 500,000 HazMat issues per year
- > More than 7,000 different active HazMat
- > More than 1,400 new HazMat each year
- > More than 1,000 processes and shops of concern





- > Clean Air Act (CAA)
 - HazMat constituent and vapor pressure limits
 - HazMat consumption limits
 - Tiered process controls based on HazMat and operation type
- > Occupational Safety and Health Administration (OSHA)
 - Hazard communication
- > Resource Conservation and Recovery Act (RCRA)
 - Knowledge-based waste characterization





- The Enterprise
 Environmental, Safety and
 Occupational Health
 Management Information
 System (EESOH-MIS)
 Hazardous Materials
 Module
 - Standardized Air Force
 HazMat tracking system
 - 600,000 individual containers of HazMat issued annually



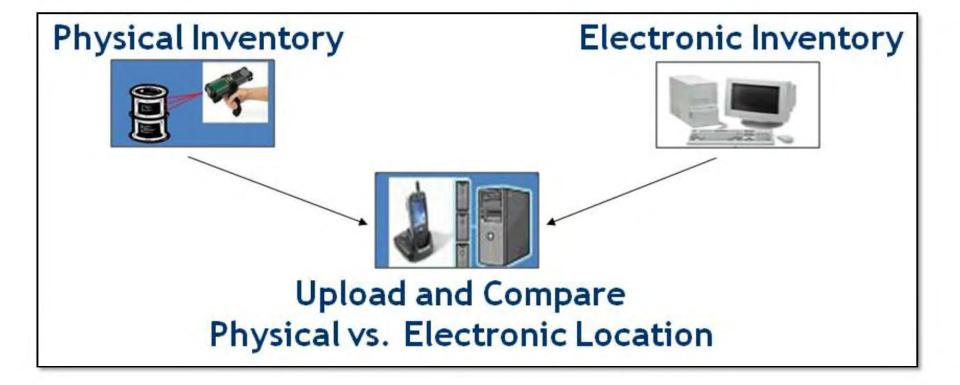




- > Perform inventory reconciliation audits
- > Reduce HazMat inventory transaction errors in EESOH-MIS HazMat Module
- > Ensure a strong regulatory compliance posture











- > Two changes to decrease error rates
 - Implementation of a compliance risk-based audit frequency
 - Communication of results to each Hazmart's chain of command
- > Risk-based frequency
 - Quarterly (26)
 - Semi-annual (39)
 - Annual (9)





- > Errors are identified by audit tool
- > Root causes are identified
- > Corrective actions are then taken by HazMat personnel

Results



- Increased focus on management efforts for Hazmarts with greatest risk of non-compliance
- Increased visibility of day-to-day operations of each Hazmart
- > Increased involvement from upper management



Results



- > Overall improvement of 31% in error rate
- > Highest risk areas
 - Improvement in 100% of Hazmarts
 - Reduced initial error rate by 30%
 - 50% decrease in average error rate
 - 49% decrease in total number of container errors



Lessons Learned



- > Changes provided immediate and considerable improvement in audit errors
- > This approach will be implemented in a Shop-Level Materials Audit Program

Summary



> Hill AFB

- 74 Hazmarts
- 600,000 individual containers of HazMat issued annually
- EESOH-MIS HazMat Module used to track data
- Inventory error rates a problem



Summary



> HazMat Audit Program

- Implement risk based HazMat audit frequency
- Communicate results through chain of command

> Results

- Improved compliance standing
- Increased inventory accuracy

> Lessons learned

Implement similar Shop-Level Audit Program







Michelle Cottle

75ABW/CEG/CEVC (801) 777-5041 Michelle.Cottle@hill.af.mil **David Hansell**

EM-Assist, Inc. (801) 775-6902

DHansell@EM-Assist.com